

For Research Use Only

HPGD Monoclonal antibody

Catalog Number: 66798-1-Ig **3 Publications**



Basic Information

Catalog Number: 66798-1-Ig	GenBank Accession Number: BC018986	Purification Method: Protein A purification
Size: 150ul, Concentration: 1100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3248	CloneNo.: 3F1F5
Source: Mouse	UNIPROT ID: P15428	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:50-1:500
Isotype: IgG2b	Full Name: hydroxyprostaglandin dehydrogenase 15-(NAD)	
Immunogen Catalog Number: AG1499	Calculated MW: 29 kDa	
	Observed MW: 25-28 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : COLO 320 cells, human small intestine tissue, Caco-2 cells, HT-29 cells, human colon tissue IHC : human colon tissue, human colon cancer tissue, human lung cancer tissue IF/ICC : A549 cells,
Cited Applications: WB, IHC	
Species Specificity: Human	
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HPGD, also named as PGDH (15-hydroxyprostaglandin dehydrogenase), a prostaglandin-degrading enzyme that physiologically antagonizes COX-2 (PMID:15574495). HPGD inhibits in vivo proliferation of colon cancer cells (PMID:24760190). HPGD has five isoforms with the molecular mass of 29, 21, 19, 16 and 15 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Altannavch Nyamsambuu	35061708	PLoS One	WB
Yunhua Yi	39174854	Reprod Sci	WB,IHC
Linchong Sun	37500770	Nat Chem Biol	WB,IHC

Storage

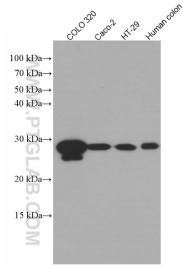
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

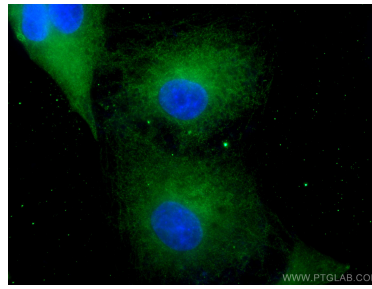
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

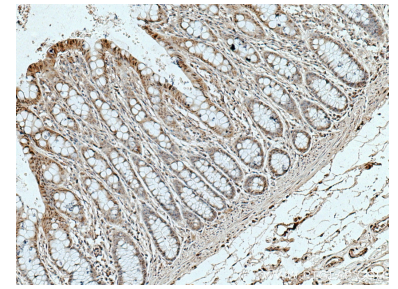
Selected Validation Data



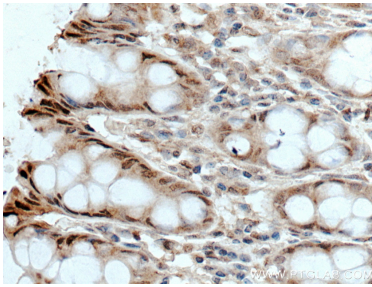
Various lysates were subjected to SDS PAGE followed by western blot with 66798-1-Ig (HPGD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



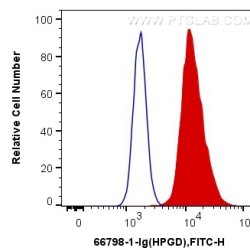
Immunofluorescent analysis of (4% PFA) fixed A549 cells using 66798-1-Ig (HPGD antibody), at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66798-1-Ig (HPGD antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66798-1-Ig (HPGD antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ A549 cells were intracellularly stained with 0.2 ug Anti-Human HPGD (66798-1-Ig, Clone:3F1F5) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).